

MAR 18 2005

PATENT & TRADEMARK OFFICE

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2008. OMB 0651-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE REMITTANCE For FY 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number 09/480,837
 Filing Date January 10, 2000
 First Named Inventor Stephan Gehring
 Examiner Name Chirag G. Shah
 Art Unit 2664
 Attorney Docket No. 00041

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):☒ Deposit Account Deposit Account Number: 50-3143 Deposit Account Name: Pulse-LINK, Inc.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
- 20 or HP =	x	=
HP = highest number of total claims paid for, if greater than 20.		
Indep. Claims	Extra Claims	Fee (\$)
- 3 or HP =	x	=
HP = highest number of independent claims paid for, if greater than 3.		

Total Claims Extra Claims Fee (\$)

Multiple Dependent Claims

Fee (\$)

Fee Paid (\$)

Indep. Claims Extra Claims Fee (\$)

Fee Paid (\$)

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(c).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

Fee Paid (\$)

- 100 = / 50 = (round up to a whole number) x =

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Fees Paid (\$)

Other (e.g., late filing surcharge): SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT \$180.00

SUBMITTED BY

Signature Registration No. 42,845 Telephone 760-607-0844

Name (Print/Type) Peter R. Martinez Date March 15, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /KMR/



Docket No.: 00041

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Stephen Gehring et al.)	
)	
Serial No.: 09/480,837)	
)	Art Unit: 2664
Filed: January 10, 2000)	
)	
For: AN APPARATUS AND METHOD)	Examiner: Chirag G. Shah
FOR MANAGING VARIABLE-SIZE)	
DATA SLOTS WITH TIMESTAMP)	
COUNTERS WITHIN A TDMA)	
FRAME)	

Carlsbad, California
March 15, 2005

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents listed on the enclosed PTO/SB/08 form of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

Copies of the U.S. patents and published U.S. patent applications listed on the enclosed form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R.

03/21/2005 09:00:06.37 09/00037
10/00037

§ 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 that appears in the Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003."

However, the two (2) foreign patent documents and the 13 non-patent literature documents listed on the PTO/SB/08 form are included for review and consideration.

The U.S. and foreign, patents and published patent applications, and the non-patent literature listed on the enclosed PTO/SB/08 form may be cited in several of the following patent applications, which may be related to the present application: Serial No. 09/599,969, filed June 21, 2000; Serial No. 09/393,126, filed September 10, 1999; Serial No. 09/393,122, filed September 10, 1999; Serial No. 10/611,199, filed June 30, 2003; Serial No. 09/599,969, filed June 21, 2000; Serial No. 10/623,061, filed July 18, 2003; Serial No. 09/603,310, filed June 21, 2000; Serial No. 09/599,969, filed June 21, 2000; Serial No. 09/599,968, filed June 21, 2000; Serial No. 09/599,969, filed June 21, 2000; Serial No. 09/949,256, filed September 7, 2001; Serial No. 10/924,143, filed August 23, 2004; Serial No. 09/710,065, filed November 9, 2000; Serial No. 09/788,295, filed February 16, 2001; Serial No. 09/805,735, filed March 13, 2001; and Serial No. 10/238,995, filed September 9, 2002.

This Supplemental Information Disclosure Statement is accompanied by the requisite fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00.

It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent(s) that may issue from this application. It is also respectfully requested that a copy of Form PTO/SB/08, as considered and initiated by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

Respectfully submitted,

March 15, 2005

Date



Peter R. Martinez
Attorney for Applicant(s)
Reg. No. 42,845

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1969 Kellogg Avenue
Carlsbad, CA 92008
Telephone No.: (760) 607-0844



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	09/480,837
Filing Date	January 10, 2000
First Named Inventor	Stephan Gehring
Art Unit	2664
Examiner Name	Chirag G. Shah
Attorney Docket Number	00041

Sheet 1 of 18

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 3,668,639	06-06-1972	Harmuth	
		US- 3,678,204	07-18-1972	Harmuth	
		US- 3,728,632	04-17-1973	Ross	
		US- 3,875,524	04-1975	Harzer et al.	
		US- 4,232,339	11-1980	Smiley et al.	
		US- 4,506,267	03-19-1985	Harmuth	
		US- 4,574,378	03-1986	Kobayashi	
		US- 4,641,317	02-03-1987	Fullerton	
		US- 4,644,534	02-1987	Sperlich	
		US- 4,651,152	03-17-1987	Harmuth	
		US- 4,672,608	06-1987	Ball et al.	
		US- 4,743,906	05-10-1998	Fullerton	
		US- 4,763,325	08-1988	Wolfe et al.	
		US- 4,813,057	03-14-1989	Fullerton	
		US- 5,134,408	07-28-1992	Harmuth	
		US- 5,148,174	09-15-1992	Harmuth	
		US- 5,153,595	10-06-1992	Harmuth	
		US- 5,159,343	10-27-1492	Harmuth	
		US- 5,307,081	04-26-1994	Harmuth	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 01/93434 A2	10-06-2001	Rofheart et al.		
		WO 02/31986 A2	04-18-2002	McCorkle et al.		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	8
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Application Number	09/480,837
Filing Date	January 10, 2000
First Named Inventor	Stephan Gehring
Art Unit	2664
Examiner Name	Chirag G. Shah
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		Number-Kind Code ² (if known)			
		US- 5,334,975	08-02-1994	Wachob et al.	
		US- 5,365,240	11-15-1994	Harmuth	
		US- 5,493,691	02-20-1996	Barrett	
		US- 5,519,400	05-1996	McEwan	
		US- 5,523,758	06-04-1996	Harmuth	
		US- 5,586,145	12-17-1996	Morgan et al.	
		US- 5,592,177	01-07-1997	Barrett	
		US- 5,594,738	01-1997	Crisler et al.	
		US- 5,610,907	03-11-1997	Barrett	
		US- 5,675,388	10-1997	Cooper	
		US- 5,715,236	02-03-1998	Gilhousen et al.	
		US- 5,748,891	05-05-1998	Fleming et al.	
		US- 5,761,197	06-1998	Takefman	
		US- 5,812,671	09-1998	Ross	
		US- 5,832,035	11-03-1998	Fullerton	
		US- 5,850,422	12-1998	Chen	
		US- 5,886,652	03-1999	Adachi et al.	
		US- 5,889,767	03-1999	Kimura	
		US- 5,903,605	05-1999	Crittenden	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)	MM-DD-YYYY			

Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3

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Application Number	09/480,837
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First Named Inventor	Stephan Gehring
Art Unit	2664
Examiner Name	Chirag G. Shah
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		Number-Kind Code ^{2 (if known)}			
		US- 5,909,491 A	06-1999	Luo	
		US- 5,920,278	07-06-1999	Tyler et al.	
		US- 5,940,435	08-1999	Hendrickson	
		US- 6,002,708	12-14-1999	Fleming et al.	
		US- 6,026,125	02-15-2000	Larrick, Jr. et al.	
		US- 6,064,697	05-2000	Yoshikawa	
		US- 6,067,648	05-2000	Hunter et al.	
		US- 6,069,887	05-2000	Geiger et al.	
		US- 6,097,766	08/2000	Okubo et al.	
		US- 6,115,390	09-05-2000	Chuah	
		US- 6,122,291 A	09-2000	Robinson et al.	
		US- 6,133,876	10-17-2000	Fullerton et al.	
		US- 6,161,138	12-2000	Gross et al.	
		US- 6,172,965	01-2001	Edwards et al.	
		US- 6,177,903 B1	01-2001	Fullerton et al.	
		US- 6,178,217 B1	01-23-2001	Defries et al.	
		US- 6,212,230	04-2001	Rybicki et al.	
		US- 6,232,910 B1	05-15-2001	Bell et al.	
		US- 6,236,662 B1	05-2001	Reilly	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	09/480,837
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Sheet 4 of 18

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		Number-Kind Code ² (if known)			
	US-	6,239,741 B1	05-2001	Fontana et al.	
	US-	6,243,372	06-2001	Petch	
	US-	6,246,277 B1	6,246,277 B1	Aiello et al.	
	US-	6,246,377 B1	06-12-2001	Aiello et al.	
	US-	6,275,500	08-2001	Callaway et al.	
	US-	6,275,544 B1	08-14-2001	Aiello et al.	
	US-	6,285,662 B1	09-04-2001	Watanabe et al.	
	US-	6,292,153 B1	09-18-2001	Aiello et al.	
	US-	6,310,865 B1	10-2001	Ohki	
	US-	6,324,397 B1	11-2001	Adachi et al.	
	US-	6,351,468 B1	02-2002	LaRowe et al.	
	US-	6,351,652 B1	02-26-2002	Finn et al.	
	US-	6,385,461 B1	05-2002	Raith	
	US-	6,424,645	07-2002	Kawabata et al.	
	US-	6,437,832 B1	08-20-2002	Grabb et al.	
	US-	6,449,265 B1	09-2002	Prieto, Jr.	
	US-	6,477,171 B1	11-2002	Wakeley et al.	
	US-	6,480,505 B1	11-2002	Johansson et al.	
	US-	6,492,904 B2	12-10-2002	Richards	

FOREIGN PATENT DOCUMENTS

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Examiner
SignatureDate
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5

of 8

Application Number	09/480,837
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Art Unit	2664
Examiner Name	Chirag G. Shah
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		Number-Kind Code ² (if known)			
		US- 6,497,656 B1	12-24-2002	Evans et al.	
		US- 6,505,032 B1	01-07-2003	McCorkle	
		US- 6,519,460	02-2003	Haartsen	
		US- 6,539,213 B1	03-25-2003	Richards et al.	
		US- 6,549,567 B1	04-15-2003	Fullerton	
		US- 6,574,266 B1	06-2003	Jacobus Haartsen	
		US- 6,603,818 B1	08-2003	Dress et al.	
		US- 6,621,857 B1	09-2003	Belotserkovsky et al	
		US- 6,625,229 B2	09-2003	Dress et al.	
		US- 6,628,642	09-2003	Mile'n et al.	
		US- 6,633,558	10-2003	Cho et al.	
		US- 6,668,008	12-2003	Panasik	
		US- 6,697,382	02-2004	Eatherton	
		US- 6,707,828	03-2004	Chuah et al.	
		US- 6,735,238 B1	05-2004	McCorkle et al.	
		US- 6,735,734 B1	05-2004	Liebetreu et al.	
		US- 6,747,959 B1	06-2004	Jin-Meng Ho	
		US- 6,791,734 B2	09/14/04	Izadpanah	
		US- 2001/0055353	12-2001	Rybicki et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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Sheet 6

of 8

Complete if Known

Application Number	09/480,837
Filing Date	Januray 10, 2000
First Named Inventor	Stephan Gehring
Art Unit	2664
Examiner Name	Chirag G. Shah
Attorney Docket Number	00041

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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**INFORMATION DISCLOSURE
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(Use as many sheets as necessary)

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Filing Date	January 10, 2000
First Named Inventor	Stephen Gehring
Art Unit	2664
Examiner Name	Chirag G. Shah
Attorney Docket Number	00041

Sheet 7 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"802.1D and 802.1Q Bridging Conformance" TA Document IEEE802.17-11Jul2001/040:3, 1394 Trade Association, 7 pages, October 2001.	
		Bruno Pattan, A Brief Exposure to Ultra-Wideband Signaling, Microwave Journal, December 2003, 5 pages.	
		David G. Leeper, Wireless Data Blaster, Scientific American, May 2002, Pages 65-69.	
		Dr. James P. K. Gilb, Wireless Multimedia... A Guide to the IEEE 802.15.3 Standard, March 2004, Pages 23-63.	
		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Low-Power, Miniature, Distributed Position Location and Communication Devices Using Ultra-Wideband, Nonsinusoidal Communication Technology," Semi-Annual Technical Report Prepared for: ARPA/FBI, July 1995, Pages 1-40.	
		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Integrated, Low-Power, Ultra-Wideband Transceivers for Distributed Position Location and Communication," Technical Abstracts of Proposal to Defense Advanced Research Projects Agency (DARPA), Part I - Technical Proposal, 1998, Pages 1-52.	
		HENNING F. HARMUTH et al., "Large-Current, Short-Length Radiator for Nonsinusoidal Waves," IEEE International Symposium on Electromagnetic Compatibility, 1983, Pages 453-455.	
		HENNING F. HARMUTH, "Applications of Walsh functions in communications," IEEE Spectrum, November 1969, Pages 82-91.	
		HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-20, No. 1, February 1978, Pages 232-239.	
		HENNING F. HARMUTH, "Fundamental Limits for Radio Signals With Large Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-23, No. 1, February 1981, Pages 37-43.	

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Filing Date	January 10, 2000
First Named Inventor	Stephen Gehring
Art Unit	2664
Examiner Name	Chirag G. Shah
Attorney Docket Number	00041

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		FERNANDO RAMIREZ-MIRELES et al., "N-Orthogonal Time-Shift-Modulated Codes for Impulse Radio," Communication Sciences Institute, Department of Electrical Engineering-Systems, University of Southern California, Los Angeles, CA 90089-2565 USA, Pages 1-4.	
		FERNANDO RAMIREZ-MIRELES, "On Performance of Ultra Wideband Signals in Gaussian Noise and Dense Multipath," Paper 99C265, Accepted for Publication in the IEEE Transactions on Vehicular Technology, Pages 1-9.	
		J HUSTED, A WALKER & G GOUBEAUD, "A Time-Division Multiple-Access System for the Defense Satellite Communications System", COMSAT Laboratories, Communications Satellite Corp., Washington D.C., EASCON Pages 229-237	

Examiner Signature	/Keith Rose/	Date Considered	09/23/2008
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